

AMENDMENTS TO THE CLAIMS:

Claims 11-13 are canceled without prejudice or disclaimer. Claims 1, 3, 5-7 and 14-15 are amended. The following is the status of the claims of the above-captioned application, as amended.

Claim 1. (Currently amended) A process for preparing a dough-based product, comprising adding a xylanase to a dough, leavening, and heating the dough, wherein the xylanase is a polypeptide having at least 83-90% identity to the amino acid sequence as shown in positions 1-182 of SEQ ID NO-NO: 2 or encoded by a nucleic acid sequence which hybridizes at 38°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 2. (Original) The process of claim 1 which further comprises adding an exo-acting maltogenic alpha-amylase to the dough.

Claim 3. (Original) A composition which comprises flour together with a xylanase which is a polypeptide having at least 83-90% identity to the amino acid sequence as shown in positions 1-182 of SEQ ID NO: 2 or encoded by a DNA sequence which can hybridize at 38°C in 0.1 x SSC to the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 4. (Original) The composition of claim 3 which is a dough.

Claim 5. (Currently amended) A granulate or agglomerated powder comprising a xylanase which is a polypeptide having at least 83-90% identity to the amino acid sequence as shown in positions 1-182 of SEQ ID NO-NO: 2 or encoded by a nucleic acid sequence which hybridizes at 38°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 6. (Currently amended) A polypeptide having xylanase activity selected from the group consisting of:

- a) a polypeptide encoded by the xylanase-encoding part of the genome present in *Paenibacillus* DSM 16232 that can be amplified with the primers (SEQ ID NO.: 3) and (SEQ ID NO.: 4)
- b) a polypeptide having an amino acid sequence as shown in positions 1-182 of SEQ ID NO-NO: 2;
- c) a polypeptide which has at least 95 % identity to the polypeptide defined in (a) or (b),

d) a polypeptide which is encoded by a nucleic acid sequence which hybridizes at 49°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 7. (Currently amended) A polynucleotide comprising a sequence selected from the group consisting of:

- e) the xylanase-encoding part of the genome of *Paenibacillus* that can be amplified with the primers (SEQ ID NO.: 3) and (SEQ ID NO.: 4) present in DSM 16232;
- f) nucleotides 85-630 of SEQ ID NO: 1;
- g) a polynucleotide encoding amino acids 1-182 of SEQ ID NO-NO: 2;
- h) a polynucleotide which encodes a polypeptide having xylanase activity and has at least 95 % identity to the polynucleotide of a), b) or c),
- i) a nucleic acid sequence which hybridizes at 49°C in 0.1 x SSC with the complementary strand of the polynucleotide of a), b) or c),
- j) the complementary strand of the polynucleotide of a), b), c), d) or e).

Claim 8. (Original) A vector comprising the polynucleotide of claim 7 operably linked to one or more control sequences that direct the production of the polypeptide in a suitable host.

Claim 9. (Original) A transformed host cell comprising the vector of claim 8.

Claim 10. (Original) A method for producing an xylanase, which comprises

- k) cultivating the host cell of claim 9 under conditions appropriate for expression of xylanase, and
- l) recovering the xylanase.

Claims 11-13 (Canceled)

Claim 14. (Currently amended) The process of claim 1, wherein the xylanase is a polypeptide having at least 95 % identity to the amino acid sequence as shown in positions 1-182 of SEQ ID NO-NO: 2.

Claim 15. (Currently amended) The process of claim 1, wherein the xylanase is a polypeptide having at least 98 % identity to the amino acid sequence as shown in positions 1-182 of SEQ ID NO-NO: 2.

Claim 16. (Previously presented) The process of claim 1, wherein the xylanase is a polypeptide encoded by a nucleic acid sequence which hybridizes at 38°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 17. (Previously presented) The process of claim 1, wherein the xylanase is a polypeptide encoded by a nucleic acid sequence which hybridizes at 40°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 18. (Previously presented) The process of claim 1, wherein the xylanase is a polypeptide encoded by a nucleic acid sequence which hybridizes at 45°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 19. (Previously presented) The process of claim 1, wherein the xylanase is a polypeptide encoded by a nucleic acid sequence which hybridizes at 49°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.

Claim 20. (Previously presented) The process of claim 1, wherein the xylanase is a polypeptide encoded by a nucleic acid sequence which hybridizes at 55°C in 0.1 x SSC with the complementary strand of nucleotides 85-630 of SEQ ID NO: 1.